Author: CNO WASHINGTON DC//N6// at CNO-HUB
Date: 6/5/95 2:54 PM
Priority: Normal
TO: #N095_INFO at N95-PO1
TO: #N21_BBS at N2-PO1
TO: #N2K_BBS at N2-PO1
TO: #N2SPE_BBS at N2-PO1
TO: #N2_BBS at N2-PO1
TO: #N3N5_GEN at N3N5-PO1
TO: #N4_Message_Traffic at N04-PO2
TO: #N6-GEN at N6-PO2
TO: #N6-MSG at N6-PO2
TO: #N6-ORIG at N6-PO2
TO: #N61-BBS at N6-PO2
TO: #N63-BBS at N6-PO2
TO: #N64-BBS at N6-PO2
TO: #N65-BBS at N6-PO2
TO: #N6E-BBS at N6-PO2
TO: #N85_GEN at N85-PO1
TO: #N86_GEN at N86-PO1
TO: #N86_INFO at N86-PO1
TO: #N87-GENERAL at N87-PO1
TO: #N87-INFO at N87-PO1
TO: #N8_GEN at N8-PO1
TO: #NCC_INFO at N3N5-PO1
TO: CNO-N00A at N09-PO1
TO: CNO-N00A1 at N09-PO1
TO: CNO-N00AA at N09-PO1
TO: CNO-N00AB at N09-PO1
TO: CNO-N00AB1 at N09-PO1
TO: CNO-N00AB2 at N09-PO1
TO: CNO-N00C at N09-PO1
TO: CNO-N00C1 at N09-PO1
TO: CNO-N00G at N09-PO1
TO: CNO-N00G1 at N09-PO1
TO: CNO-N00W at N09-PO1
TO: CNO-N09B at N09B-PO1
TO: CNO-N09B34 at N09B-PO1
TO: CNO-N09B34B at N09B-PO1
TO: CNO-N09B34D2 at N09B-PO1
TO: CNO-N09B34F1 at N09B-PO1
TO: CNO-N09B34G at N09B-PO1
TO: CNO-N09B34G1 at N09B-PO1
TO: CNO-N09B34G2 at N09B-PO1
TO: CNO-N09BB at N09B-PO1
TO: CNO-N09D1 at N09-PO1
TO: CNO-N09D2 at N09-PO1
TO: CNO-N09D3 at N09-PO1
TO: CNO-N65TC20 at N653-PO1
TO: CNO-N65TC35 at N653-PO1
TO: CNO-N81WM at N81-PO1
TO: CNO-N88W2 at N88-PO1
TO: CNO-N88W4 at N88-PO1
TO: CNO-N88WB at N88-PO1
TO: CNO-N89MSG at CNO-REMOTE
TO: CNO-N8G at N8-PO1
TO: RDAMSG at RDA-PO1

Subject: DON NAVAL VIDEO TELECONFERENCING (VTC) MANAGEMENT AND
------------------------------ Message Contents ------------------------------
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UNCLASSIFIED
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R 051410Z JUN 95
FM: CNO WASHINGTON DC
ORIG N6

Subject: DON NAVAL VIDEO TELECONFERENCING (VTC) MANAGEMENT AND

UNCLAS//N02300// SECTION 01 OF 03
ALCOM 029/95
MSGID/GENADMIN/CNO N6//
SUBJ/DON NAVAL VIDEO TELECONFERENCING (VTC) MANAGEMENT AND
ACQUISITION//
REF/A/LTR/ASD-C3I POLICY MEMORANDUM/31OCT94//
REF/B/DOC/OPNAVINST 2015.1/02MAR92//
REF/C/LTR/ASN/CNO JOINT LTR SER N6/4U559801/23JAN95//
NARR/REF A PROVIDES DOD VTC STANDARDS GUIDANCE. REF B IS POLICY FOR
NAVY VTC AND ESTABLISHES THE VIDEO TELECONFERENCING PLANNING AND
REQUIRMENTS PANEL (VTCPRP). REF C DESIGNATES COMSPAWARSYSCOM AS
PRIMARY POINT OF CONTACT (POC) FOR NAVY GENSER VTC.//
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POC/M.S. HAINES/LT/CNO N61L/-/TEL:DSN 225-6440/TEL:703-695-7589//
POC/M. BOWSER/CIV/ONI 724/SCI VTC/TEL:301-669-4705//
POC/R.D. CHEATHAM/CAPT/HQMC C4I CSB/-/TEL:DSN 224-2542/
TEL:703-614-2542//
POC/R. HARDING/CIV/PMW-176-2X/-/TEL:DSN 332-5449/TEL:703-602-5449//
RMKS/1. THIS IS A COORDINATED USN/USMC ALCOM, WHICH SETS FORTH POLICY
ON VTC MANAGEMENT, ACQUISITION, AND STANDARDS. FOR SIMPLICITY, THIS
MESSAGE USES "VTC" TO INCLUDE ALL APPLICATIONS OF THE VIDEO MEDIUM. 2.
BACKGROUND. VTC IS RAPIDLY BECOMING A PRIMARY C4I AND ADMINISTRATIVE
TOOL FOR ALL LEVELS OF COMMAND. DURING OPERATIONS OCEAN VENTURE 93 AND
RESTORE DEMOCRACY, USACOM RECEIVED DAILY VTC BRIEFINGS FROM THE
OPERATING FORCES, INCLUDING REAL TIME VIDEO OF GROUND ACTIVITY RELAYED
FROM RECONNAISSANCE AIRCRAFT. VTC NETWORKS HAVE HOSTED SEVERAL JOINT,
CNO, AND FLEET LEVEL CONFERENCES, INCLUDING A CONFERENCE WITH THE
COMMANDER IN CHIEF, THE SECRETARY OF DEFENSE, AND THE CHAIRMAN OF THE
JOINT CHIEFS OF STAFF WITH ON
SCENE COMMANDERS DURING OPERATION RESTORE DEMOCRACY. CINCUSNAVEUR
IN NAPLES RECEIVES DAILY BRIEFINGS FROM HIS STAFF IN LONDON
VIA VTC. THE CNO USED VTC TO ELECTRONICALLY JOIN PACFLT FLAGS DURING
CINCPACFLEET'S COMMANDER'S CONFERENCE, AND STRONGLY DESIRES TO
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INCREASE OUR VTC CAPABILITY AND AVAILABLILITY. OUR ALLIES HAVE SHOWN
INTEREST IN VTC FOR CONDUCTING EXERCISE PRE-BRIEFS AND HOT WASH-UPS.
IN THE AREA OF VIDEO TELETRAINING, CNET REPORTS A SAVINGS IN EXCESS OF
EIGHT MILLION DOLLARS WHILE TRAINING OVER 27,000 STUDENTS DURING THE
LAST FOUR YEARS. ADDITIONALLY, CNET REPORTS MORE THAN 37,000 PODIUM
HOURS SAVED BY SINGLE SITING INSTRUCTION. DURING PROJECT "CHALLENGE
ATHENA", THE GEORGE WASHINGTON BATTLE GROUP DEMONSTRATED THE
TREMENDOUS POTENTIAL OF VTC IN REDUCING COSTS AND INCREASING
OPERATIONAL FLEXIBILITY. MOREOVER, FLEET INPUTS HAVE IDENTIFIED GREAT
POTENTIAL FOR COST AVOIDANCE AND INCREASED READINESS THROUGH VTC
APPLICATIONS SUCH AS TELETRAINING, TELEMAINTENANCE, TELEMEDICINE,

MISSION PLANNING, MORALE ENHANCEMENTS, AND MANY MORE APPLICATIONS THAT WE HAVEN'T THOUGHT OF BUT OUR SAILORS AND MARINES WILL DISCOVER. 3. CNO IS COMMITTED TO EXPAND VTC CAPABILITY IN THE FLEET. A SIGNIFICANT INVESTMENT IN A GLOBAL, HIGH-BANDWIDTH COMMUNICATIONS NETWORK TO SUPPORT VIDEO, VOICE AND DATA TRANSFER REQUIREMENTS IS PROGRAMMED INTO THE NEXT CENTURY. IN RESPONSE TO FLEET CINC REQUIREMENTS, CNO HAS VALIDATED AND WILL PROGRAM/FUND VTC CAPABILITY ONBOARD ALL CV'S, CVN'S, LHD'S, LHA'S, AND LPH 12. ADDITIONALLY, MULTI-POINT CONTROL UNIT (MCU) UPGRADES TO SUPPORT SECURE DIAL UP PAGE 04 RUENAAA2318 UNCLAS
ACCESS AND APPLICATIONS SHARING/COLLABORATIVE PLANNING IN A BRIDGE CASCADED ENVIRONMENT AT THE SHIP-SHORE-SHIP GATEWAYS WILL CONTINUE TO BE PROGRAMMED/FUNDED BY CNO. WE ARE NOT FOCUSED JUST ON THE "BIG DECKS"; SPAWAR IS PURSUING OPTIONS TO BRING VTC CAPABILITY TO ALL WARFIGHTERS - ASHORE AND AFLOAT - TO FULLY REALIZE THE BENEFITS OF VTC. A VTC APPLICATION ON VVFD SYSTEMS WILL BE DEMONSTRATED ON A PACLFT ARG, AND A LANTFLT SHIP-SHORE LINK-UP VIA VVFD IS PLANNED SOON.
4. VTC NETWORKS. A SUMMARY OF VTC NETWORK EXPANSION OVER THE LAST TEN YEARS FOLLOWS:

A. SINCE 1985, THE DEFENSE COMMERCIAL TELECOMMUNICATIONS NETWORK (DCTN) HAS BEEN THE BACKBONE ADMINISTRATIVE ARCHITECTURE FOR DOD STUDIO VTC. DCTN OPERATES IN THE SECURE OR NON SECURE MODE AT DATA RATES FROM 386 KBPS TO 1.544 MBPS, USING PRIMARILY COMPRESSION LABS, INC. (CLI) EQUIPMENT. DCTN VTC SERVICE IS PROVIDED TO OVER 140 DOD FACILITIES LOCATED IN CONUS, PUERTO RICO, ALASKA, AND HAWAII. SEVERAL NAVAL COMMANDS HAVE DCTN STUDIOS, INCLUDING HQMC, CINCLANTFLT, CINCPACFLT, COMNAVAIRSYSCOM, AND COMSPAWARSYSCOM.

B. THE NAVAL UNDERSEA WARFARE CENTER NETWORK, A NAVSEA SPONSORED SECURE/NON SECURE POINT-TO-POINT NETWORK USED TO SUPPORT R&D EFFORTS, PAGE 05 RUENAAA2318 UNCLAS
WAS ESTABLISHED IN 1985. NETWORK HARDWARE CONSISTS OF CLI EQUIPMENT, OPERATING AT 384/768 KBPS VIA THE FTS-2000. THE NETWORK CURRENTLY CONSISTS OF THE NEWPORT, RI HUB AND FOUR SITES AT NEW LONDON, NORFOLK, CRYSTAL CITY, AND KEY PORT, WA.

C. IN 1989, THE CNET ELECTRONIC SCHOOLHOUSE NETWORK (CESN) WAS ESTABLISHED TO SUPPORT VIDEO TELETRAINING FROM FOUR SITES ON THE EAST COAST. THIS NETWORK HAS BEEN EXPANDED TO INCLUDE TWO HUBS, DAM NECK AND SAN DIEGO, SERVING 12 SITES IN CONUS AND PEARL HARBOR. THE NETWORK OPERATES IN THE SECURE OR NON SECURE MODE AT 384 KBPS, USING V-TEL EQUIPMENT, VIA THE FTS-2000.

D. IN 1992, VTC WAS EXTENDED TO THE NAVY TACTICAL USER, USING PICTURETEL EQUIPMENT FOR BOTH CONFERENCING AND BRIDGING PURPOSES, VIA THE VIDEO INFORMATION EXCHANGE SYSTEM (VIXS). THE VIXS NETWORK WAS ESTABLISHED TO MEET A CNO REQUIREMENT FOR A SECURE VTC CAPABILITY WITH THE FLEET COMMANDERS. THE REQUIREMENT WAS SUBSEQUENTLY EXPANDED TO INCLUDE THE NUMBERED FLEET COMMANDERS AND SELECTED CV'S/CVN'S AND AMPHIB'S. THE VIXS NETWORK CURRENTLY CONSISTS OF THREE HUBS, USING MCU'S, LOCATED AT NTCC PEARL HARBOR, NTCC HAMPTON ROADS, AND NCTAMS MED. EACH HUB PROVIDES AN INTERFACE FOR AFLOAT PLATFORMS AS WELL AS COMMANDERS ASHORE. THE NETWORK PAGE 06 RUENAAA2318 UNCLAS
NORMALLY OPERATES AT 256 KBPS FOR ASHORE CONFERENCES AND 128 KBPS FOR AFLOAT PLATFORMS.

E. IN 1994, THE PACIFIC VIDEO TELECONFERENCING (PACVTC) NETWORK, A USCINCPAC SPONSORED SECURE NETWORK, WAS ESTABLISHED TO SUPPORT JOINT OPERATIONAL REQUIREMENTS. THE NETWORK OPERATES AT 128 KBPS

WITH MCU SITES LOCATED AT HICKHAM AFB, HAWAII; ELMENDORF AFB, ALASKA; FT BUCKNER, OKINAWA, JAPAN; AND YOKOTA AFB, YOKOTA, JAPAN. THESE MCU'S PROVIDE VTC INTERFACE FOR CUSTOMERS LOCATED AT TWELVE SITES.

F. THE JOINT WORLDWIDE INTELLIGENCE COMMUNICATIONS SYSTEM (JWICS) IS THE DEFENSE INTELLIGENCE AGENCY (DIA) SPONSORED MULTIMEDIA NETWORK, PROVIDING INTELLIGENCE USERS VIDEO TELECONFERENCING AT THE SPECIAL COMPARTMENTED INFORMATION (SCI) LEVEL. THE JWICS NETWORK CURRENTLY CONSISTS OF APPROXIMATELY 30 SITES. THERE ARE, HOWEVER, 109 APPROVED JWICS SITES, ABOUT HALF OF WHICH WILL RECEIVE A PACKET DATA AND VTC CAPABILITY WITH THE REMAINING SITES LIMITED TO DATA ONLY. THE NAVAL JWICS PROGRAM MANAGER IS CNO N2/OFFICE OF NAVAL INTELLIGENCE CODE 724. CNO N20, ONI-7, N6, JWICS PMO, AND VIXS PMO ARE DEVELOPING A PLAN TO PROVIDE SCI VTC TO TACTICAL UNITS THROUGH SHARED USE OF EXISTING VIXS BANDWIDTH

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TO/FROM AFLOAT UNITS. USING NAVTACNET CONNECTIVITY, JWICS-TO-VIXS GATEWAYS IN NORFOLK, NAPLES, AND HAWAII WILL PROVIDE A WORLDWIDE AFLOAT VTC CAPABILITY AT BOTH SCI AND GENSER LEVELS.

5. STANDARDS. REF A DIRECTS ADHERENCE TO THE CENTER FOR OPEN SYSTEMS (COS) PROFILE, WHICH CONTAINS THE ITU-T H.320 POINT-TO-POINT AND MULTIPOINT FAMILY OF STANDARDS, FOR PROCURING VTC EQUIPMENT. ADDITIONALLY, STANDARDS TO SUPPORT APPLICATIONS FOR SHARING AND COLLABORATIVE PLANNING (T.120), WILL BE PROMULGATED LATER THIS YEAR. ALTHOUGH THE MAJORITY OF NETWORKS ADDRESSED ABOVE ARE STANDARDS COMPLIANT, THEY OPERATE IN A CLOSED ENVIRONMENT, PRECLUDING SEAMLESS INTEROPERABILITY. SOME GATEWAYS HAVE, HOWEVER,

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BEEN ESTABLISHED BETWEEN SELECTED NETWORKS;

SPECIFICALLY:

A. USING ANALOG GATEWAYS AT BOTH CINCPACFLT AND CINCLANTFLT, VIXS USERS ARE PROVIDED ACCESS TO THE DCTN VTC NETWORK.

B. USING AN ANALOG GATEWAY AT USACOM, SUBSCRIBERS OF THE MINX NETWORK, A SECURE ANALOG NETWORK OPERATING IN A CAMPUS TYPE ENVIRONMENT, IS PROVIDED ACCESS TO THE VIXS NETWORK.

C. USING ANALOG GATEWAYS AT HICKAM, FT SHAFTER, AND MAKALAPA, PACVTC USERS ARE PROVIDED ACCESS TO BOTH VIXS AND DCTN NETWORKS.

D. USING DIGITAL GATEWAYS AT BOTH KEY PORT AND CRYSTAL CITY, NUWC NETWORK SUBSCRIBERS ARE PROVIDED ACCESS TO THE DCTN NETWORK.

E. THROUGH AN INTEGRATED DIGITAL SERVICES NETWORK (ISDN) GATEWAY, CESN IS PROVIDED ACCESS TO OTHER VTT NETWORKS SUCH AS THE ARMY'S TRAINING NETWORK (TNET) AND/OR TO OTHER JOINT SERVICE/RESERVE USERS.

6. MANAGEMENT POLICY. THIS POLICY APPLIES TO ALL NEW MARINE CORPS VTC REQUIREMENTS AND ALL NAVY GENSER VTC ACTIVITIES AND CAPABILITIES (INCLUDING VIDEOPHONES, DESKTOP, AND PC-BASED DEVICES WHICH USE AN INTEGRAL CODEC) OPERATING AT DATA TRANSMISSION RATES BETWEEN 56KBPS AND 1.92MBPS. DRAFT UPDATE TO REF B INCORPORATES COS PROFILE STANDARDS AS WELL AS COMMAND RESPONSIBILITY STATED

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BELOW. SPECIFIC USN/USMC GENSER VTC MANAGEMENT RESPONSIBILITIES ARE AS FOLLOWS:

A. CNO N6 IS NAVY GENSER VTC RESOURCE SPONSOR AND OVERALL MANAGER RESPONSIBLE FOR NAVY GENSER VTC POLICY AND VALIDATION.

B. COMSPAWARSYSCOM IS NAVY GENSER VTC PRIMARY POC, UNDER CNO N6, RESPONSIBLE FOR:

1. INTRA NAVY & INTER DOD GENSER VTC COORDINATION.

2. INTEROPERABILITY TESTING.
3. STANDARDS IMPLEMENTATION.
4. DATABASE MANAGEMENT.

C. HQMC C4I IS THE MARINE CORPS FUNCTION MANAGER FOR VTC.

D. COMMARCORSYSCOM IS THE PROGRAM MANAGER OF VTC.

7. ACQUISITION. VALIDATION BY CNO N6 (USN) OR MCCDC REQUIREMENTS (USMC) PRIOR TO ACQUISITION IS REQUIRED. THIS VALIDATION WILL ENSURE A STANDARDS BASED, INTEROPERABLE DON VTC NETWORK. THE VALIDATION PROCESS REQUIRES THAT ALL VTC PROCUREMENTS COMPLY WITH REF A, AS A MINIMUM. COPIES OF THE COS VTC PROFILE (DOCUMENT #VTC 001) CAN BE OBTAINED FROM THE CORPORATION FOR OPEN SYSTEM INTERNATIONAL, 8260 WILLOW OAKS CORPORATION DRIVE, SUITE 700, FAIRFAX, VA 22031. THE COS POC IS MR. DAVID KELLEY,
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PHONE (703) 205-2762.

A. ALL MARINE CORPS REQUESTS WILL BE FORWARDED TO MCCDC REQUIREMENTS, INFO CMC WASHINGTON DC/CSB/, COMMARCORSYSCOM QUANTICO VA, AND COMSPAWARSYSCOM WASHINGTON DC/PMW-176-2X, WITH APPROPRIATE LIFE CYCLE MANAGEMENT DOCUMENTATION DEFINING SYSTEMS OPERATION AND TYPE OF CODEC USED, LOCATION, AND GATEWAYS/BRIDGES.

B. ALL NAVY COMMANDS AND ACTIVITIES WILL SUBMIT REQUESTS FOR APPROVAL BY NAVAL MESSAGE OR LETTER VIA CHAIN OF COMMAND TO CNO WASHINGTON DC/N611, INFO TO COMSPAWARSYSCOM WASHINGTON DC/ PMW-176-2X AND NISE EAST CHARLESTON SC/73/734. SUPPORTING DOCUMENTATION AND RATIONALE FOR NAVY ONLY, AS A MINIMUM, SHOULD INCLUDE:

(1) IS SYSTEM WARNER EXEMPT?

(2) REQUIREMENTS FOR INTEROPERABILITY AND CONNECTIVITY WITH OTHER NAVAL/DOD VTC NETWORKS/FACILITIES AND HOW/WHEN YOU PLAN TO MEET THIS REQUIREMENT.

(3) REQUIRED CAPABILITIES FOR THE FACILITY. SUGGESTED ITEMS TO BE CONSIDERED ARE DATA RATE, VOICE, DATA, AND HIGH RESOLUTION GRAPHICS; H.320 (PX64) WITH THE MINIMUM BEING PX1 FOR ASHORE AND AFLOAT.
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(4) REQUIREMENTS FOR SECURE CONFERENCING. STATE LEVEL OF SECURITY REQUIRED AND TYPE OF ENCRYPTION DEVICES TO BE USED. ALSO, STATE THE REQUIREMENT FOR POINT-TO-POINT OR MULTI-POINT.

(5) TELECOMMUNICATIONS/CONNECTIVITY (ISDN, DCTN, LEASED) REQUIREMENTS.

(6) OTHER ACTIVITIES/COMMANDS THAT COULD SHARE THE REQUESTED FACILITY.

(7) COST SUMMARY. PROVIDE RECURRING AND NON-RECURRING COSTS FOR SITE SURVEY/PREPARATION, TELECOMMUNICATIONS, CONNECTION FEES, FACILITY OPERATIONS, MAINTENANCE, AND LEASE OR PURCHASE COSTS FOR EQUIPMENT.

(8) CRYPTOGRAPHIC CONSIDERATIONS. IF THE REQUEST IS FOR A SITE WITH SECURE CAPABILITY, THE FOLLOWING ADDITIONAL INFORMATION IS REQUIRED:

(A) INCLUDE CNO OFFICE CODE N643 IN REQUEST.

(B) CRYPTO EQUIPMENT REQUIRED (NOMENCLATURE AND QUANTITY).

(C) WHEN EQUIPMENT REQUIRED.

(D) WHO WILL HAVE ACCESS TO EQUIPMENT.

(E) REQUEST FOR APPROPRIATE KEYING MATERIAL, IF REQUIRED.
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(F) ACCOUNT NUMBER OF CMS ACCOUNT TO WHICH EQUIPMENT AND

KEY IS TO BE ISSUED.
(G) POINT OF CONTACT FOR CRYPTOGRAPHIC RELATED QUESTIONS.
C. FORWARD REQUIREMENTS FOR NAVAL SPECIAL INTELLIGENCE (SI) VTC/ JWICS IAW APPROPRIATE GUIDANCE TO ONI SUITLAND MD/07/724, INFORMATION TO DIA WASHINGTON DC/SY3A, CNO WASHINGTON DC/N61/N652D, COMSPAWARSYSCOM WASHINGTON DC/PMW-176-2X, AND NISE EAST CHARLESTON SC/711MK.
8. WHERE WE'RE HEADED. BASED ON THE RAPID VTC TECHNOLOGY CHANGES WITNESSED DURING THE PAST YEAR, SIGNIFICANT ENHANCEMENTS EXPECTED INCLUDE:
A. REMOTE EXPERT APPLICATION WILL BE AVAILABLE THROUGH VIDEO TELEMEDICINE AND VIDEO TELEMAINTENANCE.
B. INTRA SHIP/COMMAND VTC WILL BE ACCOMPLISHED FROM THE DESKTOP VIA A FIBER DISTRIBUTION BACKBONE.
C. WITH THE ADVENT OF PC BASED CONFERENCING, COUPLED WITH DEVELOPMENT OF PACKET-BASED STANDARDS AND IMPLEMENTATION OF ASYNCHRONOUS TRANSFER MODE (ATM) TECHNOLOGY WITH MULTI LEVEL SECURE (MLS) CRYPTO, USERS WILL HAVE THE ABILITY TO PROCESS E-MAIL, ORGANIZATIONAL MESSAGING, AND VIDEO TELECONFERENCING FROM A SINGLE
BT
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WORK STATION.
D. INTRA AND INTER-BATTLE GROUP/ARG VTC WILL BE ACCOMPLISHED USING HIGH DATA RATE LINE OF SIGHT UHF LINKS OR UNMANNED AIRBORNE VEHICLES (UAV). DSCS AND C/KU BAND EQUIPPED PLATFORMS WILL PROVIDE AN INTERFACE TO VTC SHORE GATEWAYS FOR THOSE UNITS NOT SIMILARLY EQUIPPED.
E. WHEN STEAMING INDEPENDENTLY, UNITS NOT EQUIPPED WITH DSCS OR C/KU BAND WILL USE VTC VIA INMARSAT AT 64 KBPS.
F. SEAMLESS VTC SERVICES WILL BE PROVIDED AT SIGNIFICANTLY REDUCED COSTS USING ISDN, ATM SWITCHING TECHNOLOGY, HIGH-SPEED SYNCHRONOUS OPTICAL NETWORK (SONET) TRANSMISSION MEDIA, HIGH-SPEED
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BULK ENCRYPTION DEVICES, AND MISSI PRODUCTS.
9. I GREATLY APPRECIATE YOUR FEEDBACK AND HOPE TO HEAR MORE ON HOW WE CAN BEST USE VTC AS A KEY COMPONENT OF C4I FOR THE WARFIGHTER.
10. THIS ALCOM IS CANCELED UPON PROMULGATION OF OPNAVINST 2015.1A.
11. RELEASED BY VADM W.J. DAVIS, JR., DIRECTOR, SPACE AND ELECTRONIC WARFARE.//
BT
#2318
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N8(*) N81DNM(*) N89(*) N87(*) N86(*) N85(*) N4(*)
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